

F4 ENGINEERING (INDIA) PRIVATE LIMITED

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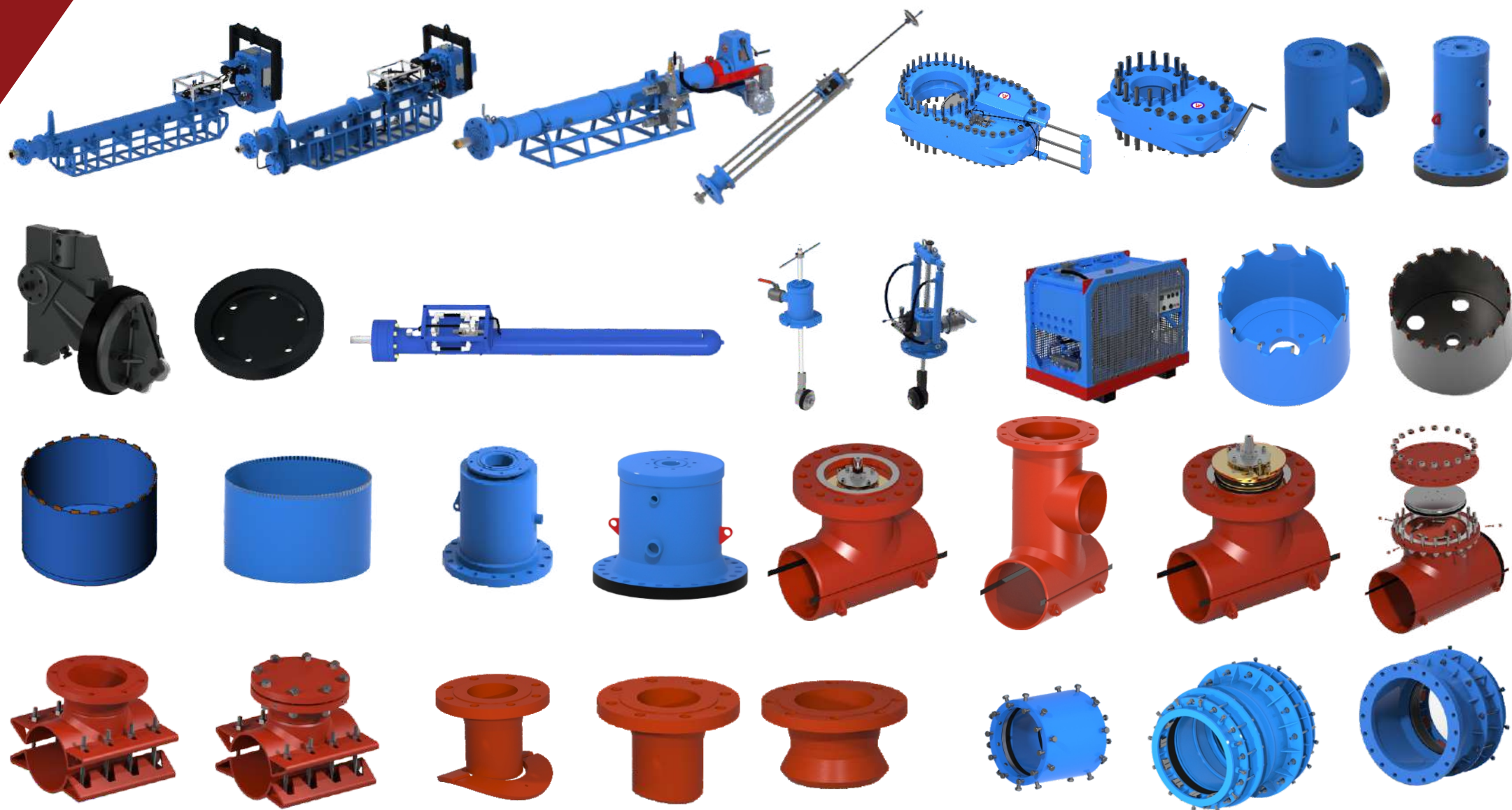


'Engineering Your Needs'

www.f4holdings.com/eng

PIPELINE SERVICES EQUIPMENT/PRODUCT <<<

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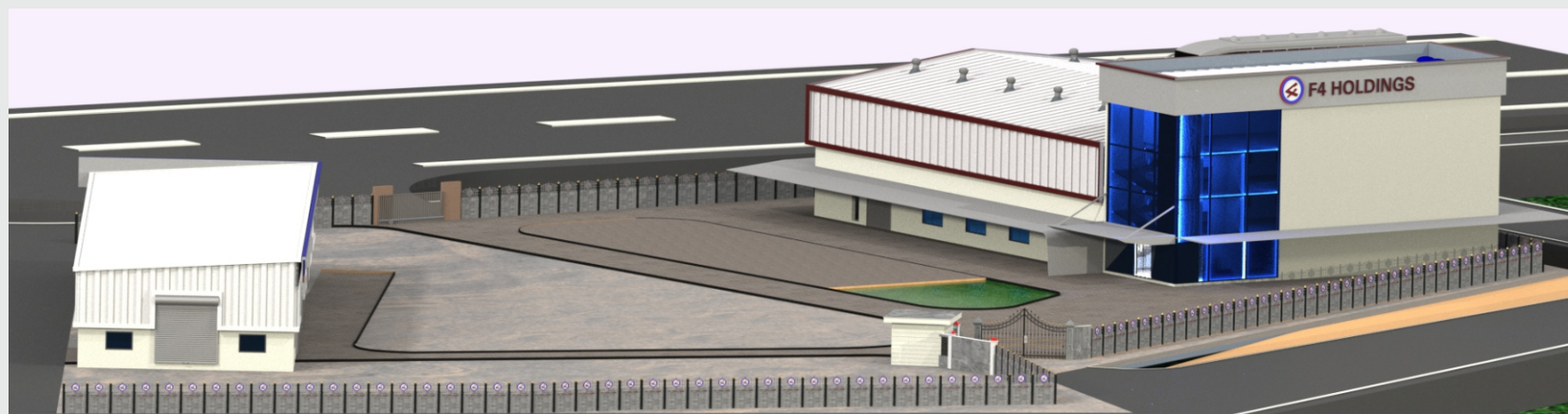
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ABOUT US



F4 ENGINEERING (INDIA) PRIVATE LIMITED is a wholly owned subsidiary of F4 HOLDINGS (INDIA) PRIVATE LIMITED. Established in the year 2015, having its facility based in PADUBIDRI – UDUPI DISTRICT , KARNATAKA - INDIA. It was set up with a primary goal of becoming a leading Manufacturer and Supplier of Industrial and Pipeline Maintenance Service Equipments / Products, in India & Globally. F4 has supplied its Equipments / Products to some of the well known companies in the Oil and Gas sector in India. F4 has also been supplying its Equipment's / Products Globally to North/South America, Europe, Asia, Middle East and African regions. **We Are The Only Known Indian Company To Manufacture Hot Tap / Line Stop Machines / Equipments / Accessories & Fittings.**



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F4 is the only industry in the whole of **Coastal Region of Karnataka - India** to have an In-house Facility for Designing, Manufacturing and Fabrication of Pipeline and Industrial Services Equipment/Products etc.

F4 has Well Equipped Machine Shop, Fabrication and Welding shop with sophisticated Equipment's such as Heavy/Light Duty Lathe Machines, Horizontal/Vertical Boring Machines, Heavy Duty Plano Milling Machine, Universal Milling Machine, Radial and Pillar type of Drilling Machines, Hacksaw/Band Saw Cutting Machines with Tig/Mig and ARC Welding Machines, Oxy Acetylene/Flame cutting equipments etc.



F4 has a Team of **skilled engineers** that, **Engineer and Design** the whole process of Manufacturing and Services according to the site conditions, technical parameters, statutory and standard essentials to develop a solution that is specific and customized to the case at hand as required by the client.

OUR FACILITY



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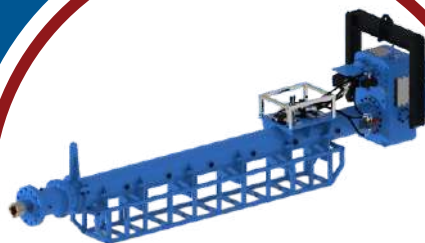
>>> HOT TAPPING MACHINES



24 Series



6 Series HTM



96 Series with
Dual Motor Drive

Hot Tapping Machine is a Portable Under Pressure Drilling Machine with a Hydraulic / Pneumatic Drive. These Machines are used for taking new connection from an existing live Pipeline without interrupting its working parameters. This is applicable to any transmission Pipelines in the Process Industries, Oil and Gas, Water, Sewage or chemical industries.

F4 Manufactures following Hot Tapping Machines for Tapping Range from ½ Inch to 96 Inch NB. All 36 Series and above Hot Tapping Machines are supplied with Dual Motor Drive.

Model No.	Tapping Range	Boring Bar Travel	Model No.	Tapping Range	Boring Bar Travel
F4 6 Series	½ Inch To 4 Inch	up to 30 Inch	F4 36 Series	12 Inch To 36 Inch	up to 108 Inch
F4 8 Series	2 Inch To 8 Inch	40 Inch	F4 42 Series	12 Inch To 42 Inch	120 Inch
F4 12 Series	3 Inch To 12 Inch	42 Inch	F4 48 Series	20 Inch To 48 Inch	up to 150 Inch
F4 17 Series	3 Inch To 18 Inch	66 Inch	F4 96 Series	24 Inch To 96 Inch	up to 180 Inch
F4 24 Series	6 Inch To 24 Inch	72 Inch			



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>>> HOT TAPPING MACHINES

F4 Designs & Manufactures **Pneumatic and Hydraulic Version of Hot Tapping Machines** with Worm Shaft + Worm Wheel Drive with Chain & Sprocket Gear Box. F4 is the First Company in India to Design, Manufacture & Supply the Air (Pneumatic) Driven Hot Tap Machine to the Public / Private sector Oil and Gas Company In India.

Air Driven Hot Tapping Machines are available in following ranges

Model No.	Tapping Range	Boring Bar Travel	Cutter Housing Mounting Size	Air Consumption
F4-208 A	2" TO 8" Tapping	30 Inches	ANSI 2 1/2 Inch 600# RTJ	6-7 Bar @90 CFM
F4-312 A	3" TO 12" Tapping	42 Inches	ANSI 4 Inch 600# RTJ	6-7 Bar @90 CFM
F4-316 A	3" TO 16" Tapping	66 Inches	ANSI 4 Inch 600# RTJ	6-7 Bar @90 CFM

Hydraulic Driven Hot Tapping Machines with the same design available as below

Model No.	Tapping Range	Boring Bar Travel	Cutter Housing Mounting Size	Recommended HPU
F4-208 H	2" TO 8" Tapping	30 Inches	ANSI 2 1/2 Inch 600# RTJ	F4-HPU-2-21-200
F4-312 H	3" TO 12" Tapping	42 Inches	ANSI 4 Inch 600# RTJ	F4-HPU-2-21-200
F4-316 H	3" TO 16" Tapping	66 Inches	ANSI 4 Inch 600# RTJ	F4-HPU-2-21-200
F4-624 H	6" TO 24" Tapping	72 Inches	ANSI 4 Inch 600# RTJ	F4-HPU-2-27-300
F4-1236 H	12" TO 36" Tapping	80 Inches	ANSI 6 Inch 600# RTJ	F4-HPU-3-27-400
F4-1236 H XL	12" TO 36" Tapping	108 Inches	ANSI 6 Inch 600# RTJ	F4-HPU-3-27-400
F4-1242 H	12" TO 42" Tapping	120 Inches	ANSI 6 Inch 600# RTJ	F4-HPU-3-27-400
F4-2048 Series	20" TO 48" Tapping	up to 150 Inches	ANSI 8 Inch 600# RTJ	F4-HPU-4-70-450
F4-2460 Series	24" TO 60" Tapping	up to 150 Inches	ANSI 8 Inch 600# RTJ	F4-HPU-4-70-450



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>>> HOT TAPPING MACHINES [HIGH PRESSURE TAPPING]



F4 manufactures **Hot Tapping Machines** with a **Pressure Balancing system** having a compensation cylinder that eliminates the effects of pipeline pressure, reducing operating loads and stresses on the Machines internal components thereby extending the Tapping Machine's life.

These Hot Tapping Machines are used for High Pressure applications.

Tapping Range : 3 Inch to 42 Inch
Factory Test (Maximum) : 2175 PSI (150 BAR)

MODELS

► F4-17-66 PB ► F4-24-72 PB ► F4-36-80 PB ► F4-36-108 PB ► F4-42-120 PB



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>>> HOT TAPPING MACHINES [LOW PRESSURE TAPPING]



Tribar Machine



Tribar Machine
(Gear Driven)

F4 Manufactures Tri Bar Hot Tapping Machines that are Lightweight & Portable. These Hot/Cold Tapping Machines are suitable for Low Pressure Utility and AC Chilled Water Pipeline Tapping's in order to take a bypass or to make branches. These Machines could be used in areas where there are space constraints such as Malls , Hotels & Data Centres etc. Due to its Lightweight & Compact Design it can be installed manually without the help of any lifting devices, including moving up in the high rise buildings to any floor using the lift. **F4 Manufactures** state of the art Compact Hot Tapping Machines that will be useful to repair or replace the damaged Pipeline without any shutdown.

Tapping Range	: 3 Inch to 16 Inch
Travel Length	: 28 Inch to 40 Inch
Drive	: Hydraulic

MODELS

► F4-312 TBM

► F4-616 TBM

► F4-312 TBMG

► F4-616 TBMG



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>>> HYDRAULIC POWER UNITS



F4-EHPU

F4 Manufactures Compact **Hydraulic Power Units** that are self-contained Systems having Diesel Engine and Electric Motor with a Hydraulic Fluid Reservoir and a Pump. It works to apply the Hydraulic Flow / Pressure needed to Drive the Motors, Cylinders and other Complementary Parts of a given Hydraulic System.

Power Pack

: Diesel | Electrical Drive

MODELS

- ▶ F4-HPU-2-21-200
- ▶ F4-HPU-3-27-400
- ▶ F4-HPU-4-70-450
- ▶ F4-HPU-2-27-300
- ▶ F4-HPU-3-47-450
- ▶ F4-PHPU-01-17-40
- ▶ F4-EHPU-3P-5-40

Engineering | Designing | Manufacturing of Highly Specialised Industrial and Pipe Line Maintenance Equipments such as Comprehensive Catalyst Handling Equipments and Accessories, Heat Exchanger Bundle Pulling and Cleaning Equipments and Accessories. On site Machining Equipments and Accessories. Hot Tapping and Line Stopping Equipments, Accessories, Hot Tap/Line Stop Split Tee's, High/Low Pressure Pipeline Leak Repair Clamps, Flange Adaptors. Dismantling Joints, End Restraint Couplings, General Machining, Structural/ Vessel and Piping Fabrication and Welding Works.



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>>> HOT TAP / LINE STOP ACCESSORIES



Cutters : F4 Manufactures **Hot Tap / Line Stop Cutters** that are Compatible/Adaptable with all International/Reputed make standard Hot Tapping Machines for different Cutting Ranges and Pipeline Materials.

Sizes : 3 Inch to 48 Inch
(Above 48 Inch can be supplied against specific request/Order)

Tool Bits Type/Grade : HSS | Tungsten Carbide | HSS + TC | Diamond | HSS or TC Multi Tooth



Pilot Drills : F4 Manufactures **Pilot Drills**, Designed with Multi U-Pins for Coupon Retention on High Velocity Flow Fitted with High Quality Insert type Drilling Spade on the tip can be replace easily on the job site these **Pilot Drills** are Designed to Drill into any Pipelines Material with any thickness.

Sizes : 2 Inch to 48 Inch
(Above 48 Inch can be supplied against specific request/Order)

Type : Threaded | Flanged Mounting





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>>> HOT TAP / LINE STOP ACCESSORIES



Tri Bar Cutter
Housing



Threaded/Flanged
Cutter/Plug Holder



Cutter Housing

Cutter Housing / Hot Tapping Adaptor : F4 Manufactures & Supply 2 Inch to 48 Inches **Cutter Housing** of ANSI 150#, 300#, 600# Class & PN series **Pressure Ratings**. We can Manufacture above 48 Inches & 600 # as per customer requirements.

F4 Manufactured Cutter Housings/Tapping Adaptors with 4 Inch 600# RTJ, 6 Inch 600# RTJ & 8 Inch 600# RTJ can be fitted with any reputed make Hot Tapping Machines.

Sizes : 2 Inch to 48 Inch

Pressure Rating : ANSI 150#, 300#, 600# Class & PN Series
(Higher Pressure Rating & Larger size can be supplied against specific request/Order)

Cutter / Plug Holders : F4 Manufactures different size **Cutter / Plug Holders** for its various model Hot Tapping Machines which are mostly compatible with all International/Reputed make Hot Tapping Machines.

Sizes : 2 Inch to 48 Inch
(Above 48 Inch can be supplied against specific request/Order)



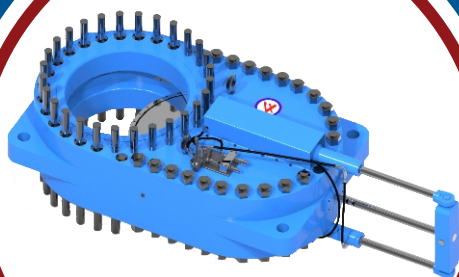
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>>> LINE / FLOW STOP EQUIPMENT



Manual



Hydraulic

Sandwich Valves / Slim Valves : F4 Manufactures Sandwich Valves / Slim Valves that are designed with restricted height without compromising on other design parameters required for the working pressure of particular pressure class. We Manufacture both Manually & Hydraulically operated Sandwich Valves.

Manually Operated : 2 Inch to 24 Inch

Hydraulically Operated : 26 Inch to 48 Inch

Pressure Rating : ANSI 150#, 300#, 600# & PN Series

Note* Larger Sizes for 150#, 300#, 600# can be supplied on request Including Higher Pressure Rating above 600#



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>>> LINE / FLOW STOP EQUIPMENT



LSH without Bypass



Line Stop Head



LSH with Bypass

Line Stop Housing : Is used to house the Line / Flow Stop Head, sealing element assembly during the Line / Flow Stop Operation. We Manufacture Line Stop Housing with or without Bypass Branch out Port.

Sizes : 2 Inch to 48 Inch

Types : With bypass | Without bypass

Pressure Rating : ANSI 150#, 300# & 600# & PN Series

Note* Larger Sizes / Higher Pressure Rating and Flange Series Housing Can Be Supplied Upon Request

Line Stop Head : Line Stopping / Plugging Heads is a essential component of the Line Stop assembly that temporarily stop the flow of product inside the pipeline during the Line / Flow Stop Operation.

Sizes : 2 Inch to 48 Inch

Pressure Rating : ANSI 150#, 300# & 600# & PN Series

Note* Larger Sizes and Higher Pressure Rating above 600# Can Be Supplied Upon Request For Higher Wall Thickness & Smaller Internal Diameter (ID) Customizable Line Stop Articulating Heads Can Be Supplied On Request



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>>> LINE / FLOW STOP EQUIPMENT



**Line Stop Actuator
(Hydraulic Cylinder)**



Sealing Element



**Line Stop Actuator
(Manual Jack Screw)**



Line Stop Actuators : For Installing / Inserting the Line / Flow Stopping Head with Sealing Element in the Line / Flow Stopping Operations, in order to isolate a section of line for repairs or additions without interruption of Service.

Sizes : 4 Inch to 48 Inch

Stroke Length : 72 Inch to 200 Inch

(Above 48 Inch can be supplied against specific request/Order)

Manual Jack Screw : Performs Line / Flow Stopping for sizes below 18 Inches at High / Low Pressure Lines.

Sizes : 2 Inch to 24 Inch

(Above 18 inch can be Manufactured & Supplied based on customer requirement)

Sealing Element : F4 supplies ready Drilled and Ground to size or Drilled and Unground depending upon customer's requirement

Sizes : 2 Inch to 48 Inch

Material : BUNA NITRILE | VITON | EPDM | NEOPRENE | POLY ACRYLIC | SILICON

Note* The Material Of Seal, Pressure Rating & Size should be selected Based on the Material code, ANSI rating and size of the seal. Larger Sizes Can be provided based on request



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>>> POWER STOP



Manual Power Stop



Hydraulic Power Stop

Power Stop : Is a Light Weight equipment that comes in sizes from 3 Inch to 12 Inches. The Power Stop System works to 16 bar and is factory tested to 24 bar. The Sealing Head expands allowing the seal, to make contact inside the pipe regardless of the ovality. The Hydraulically Operated Power Stop will be provided with a Power Unit.

We have also designed a cleaning tool that allows the contractor to see into the pipeline and remove any deposits before inserting the Power Stop Heads. The system also comes with a tool to remove any lost Coupons.

Manually Operated	: 3 Inch to 6 Inch
Hydraulically Operated	: 6 Inch to 12 Inch
Operating Pressure & Temperature	: 19 Bar (284 psi) @38° C(100° F)



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>>> INSERT VALVES



Insert Valves : They are a latest development in the Oil & Gas, Water and Process Pipeline field where a fully functional Valve is inserted into a Pipeline. Standard Valve Operating devices can operate the valve rated up to 16 bar pressure.

Sizes : 3 Inch to 12 Inch
Standard Pressure : 16 Bar

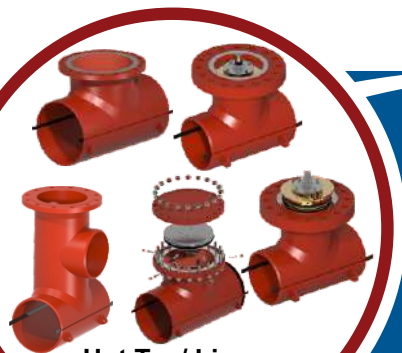


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>>> HOT TAP / LINE STOP FITTINGS



Hot Tap/ Line
Stop Split Tee



Hot Tap/Line Stop
Mechanical Tee



Hot Tap Nozzel with RF pads
| Weld-o-let | TOR

The Tees are used when Hot Tapping or Line / Flow Stopping Operations are executed on the Live Pipelines.

F4 specializes Engineering, Designing and Manufacturing of Pipeline Fittings, such as Hot Tap / Line Stop Tee's, Fabricated or Forged Type, Welding or Bolting Type, with Closure Flange and Plugs / Flow Through Guide Bar Plugs, Hot Tap Branch Nozzles with RF Pads, Gas Bagging Line Stop Nozzles with Closure Flange and Plugs, 3 - way Split Tee's.

Sizes : 2 Inch to 48 Inch

Pressure Rating : ANSI 150# | 300# | 600# & PN Series
(Higher Rating can be supplied against specific request or orders)

Note* Larger Size / Higher Pressure Rating above 600# can be supplied on request Including other Flange series also can be Supplied On Request



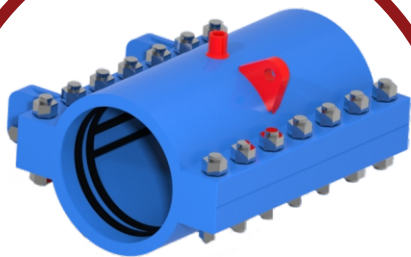
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>>> LOW / HIGH PRESSURE ENCAPSULATION/REPAIR CLAMPS



Low Pressure
Repair Clamp



High Pressure
Repair Clamp

F4 Manufactures **Encapsulation / Repair Clamps** that have been Designed to Withstand all Pipeline Pressure applications and offer a quick yet Professional Solution to a Leaking Pipe.

Features

- These Clamps can be supplied with a Ring Seal for localized damage.
- Installed mechanically using captive Bolts in bespoke size ranges to suit your Pipeline needs.



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>>> PIPE FREEZING JACKETS



The **Pipe Freezing Jackets** are used to Freeze the product inside the Pipe to form a solid Ice Plug that allows for the modification of Pipelines or Replacing of Valves, Without any system Shutdown /Interruption and without Draining of the product from the Pipeline.

Sizes : ½ Inch to 24 Inch NB Pipes
(Above 24 inch can be supplied against specific request or orders)

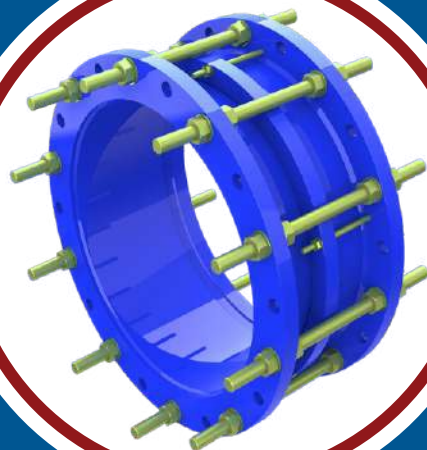
MOC : Aluminum / SS 304



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>>> DISMANTLING JOINTS



Fabricated Steel Flanged **Dismantling Joints** of dual sizes are available, fully Rated to PN16, PN25, PN40 & PN60 Including ANSI 150#, 300#, 600# & 900# to complete an impressive and extensive range of Critical Fittings Designed to connect Flanged & Spigot Pipework

Size : DN50 to DN2400

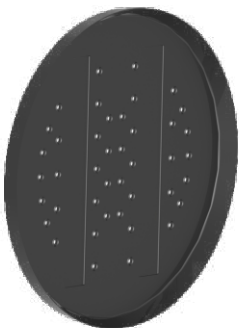
Pressure Ratings : PN16 | PN25 | PN40 | PN60 | ANSI 150#, 300#, 600# & 900#



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>>> INNOVATIVE PRODUCTS [MECHANICAL FOLDING LINE STOP HEAD]



[For Larger NB Pipes with Low Pressure / Flow Applications]

F4 Develops & Manufactures Mechanical Folding Line Stop Head for larger NB Pipes with Low Pressure applications that are used for smaller Size branch opening and Equipment's thereby reducing the overall project cost. Best suited for Line Stop Operation of Pipeline Sizes 14" to 102" (any Specific required size could be Manufactured upon request) on Low Pressure Operational line having Line Pressure up to 8 BAR. Smaller Size Hot Tap, helps to retain the Pipelines original strength.





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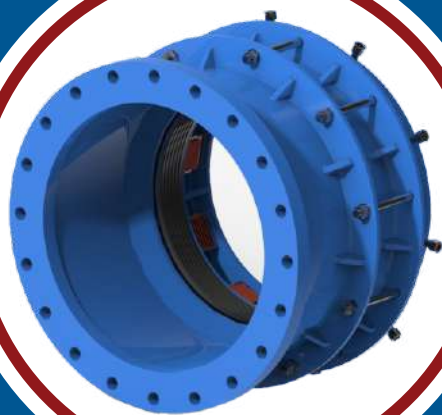
>>> FLANGE ADAPTORS



F4 Manufactures Universal Wide – Tolerance Range **Flange Adaptors** provide End-Load Resistant connections between plain Ended Pipes and Flange Elements. These are suitable for any Pipe Materials and easy to install even on Out-Of-Round Pipes.

Features

- 30mm Tolerance on Pipe OD
- Installation requires only a Torque Wrench
- Allow Angular Deflection before and after installation
- Dynamically Restrain Axial Movement of Pipes

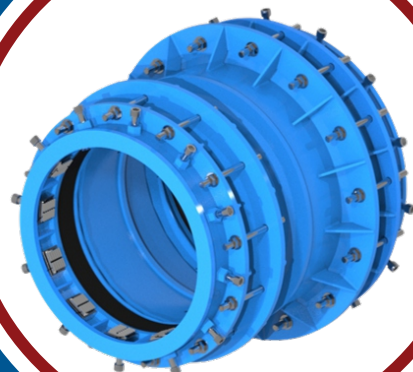
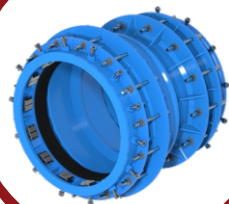




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>>> COUPLINGS & STEPPED COUPLINGS



F4 Manufactures Universal Wide-Tolerance Range **Coupling** provide End-Load Resistant connections between two plain ended Pipes. Suitable for any Pipe Material, Dynamically Restrain Axial movement of Pipes, it would also allow Angular Deflection before and after installation.

F4 Manufactures **Stepped Coupling** which are Designed to join Pipes with different Outside Diameters (OD). **Stepped Coupling** are used for when Two Spigot End Pipes required to be joined which consist of different Materials or OD. Each Fitting is Designed & Fabricated to the individual requirements to ensure a Leak Tight Seal.

Features

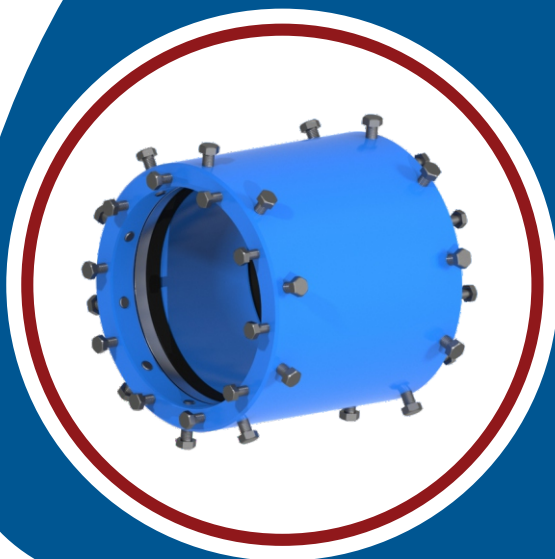
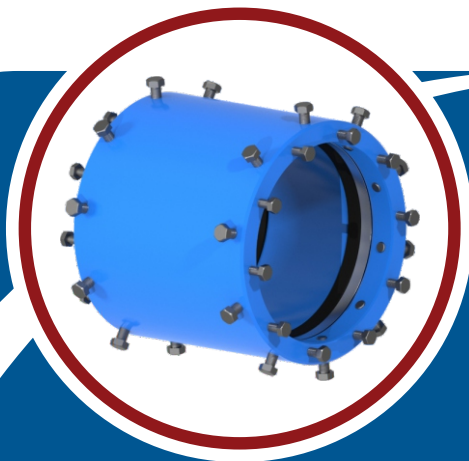
- 30mm Tolerance on Pipe OD
- Suitable for any Pipe Material
- Installation requires only a Torque Wrench
- Easy to install even on Out-Of-Round Pipes
- Easy Installation to be performed on side Bolts only
- Dynamically Restrain Axial Movement of Pipes



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>>> MECHANICAL WELDED COUPLING



Our Mechanical Welded Coupling is completely secure with screws torqued only or it can be welded depending on the MAOP of the Pipe Not Anchored or Pipe Anchored rating needed. Refer to the chart in the installation instructions for recommended Anchored and Unanchored pressures, as well as welding instructions. If welding is required, the pipeline can remain flowing. Mechanical Welded Couplings have a single row of clamping screws at each end. Where excessive end-pull loads are an issue and it is not feasible to weld, additional rows of clamping screws can be provided or a Mechanical Weld.

Sizes : 4 Inch to 48 Inch



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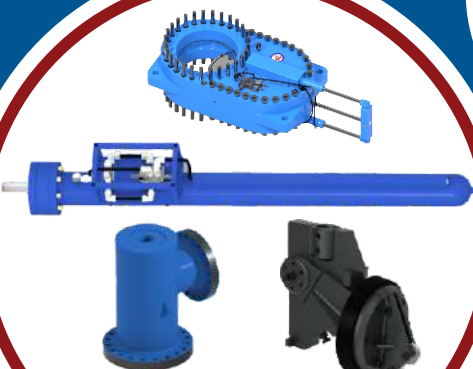
>>> RENTALS



Hot Tap Machine & Accessories



Cold Cutting Machine



Line/Flow Stop Equipment & Accessories

F4 provides **Pipeline Services Equipment / Products on Rental Bases**. These Equipments could be used for any **Hot Tapping / Line Stopping Operations from 1/2 Inch to 48 Inch**. On special client request for Tapping/Line Stopping Operations above 48 Inch Products / Equipment / Accesories could also be provided.

Rental Equipments

- Hot Tapping Machines (Page 03 - 06)
- Hydraulic Power Units (Page 07)
- Cutter Housings (Page 09)
- Sandwich Valves (Page 10)
- Line Stop Cylinders / Heads / Housings (Page 11 - 12)
- Cold Cutting Machine



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>>> MAINTENANCE & REFURBISHMENT



Before



After

F4 provides exclusive Maintenance & Refurbishment of any make Hot Tapping Machine, including service of Hydraulic Power Units, Sandwich Valves, Line Stop Cylinders and Re-Tipping & Grinding Hot Tap / Line Stop Cutters such as HSS / Tungsten Carbide / HSS + TC / Diamond/HSS or TC Multi Tooth. Worn out Seals or Rusted materials of Leak Repair Clamp's that are used on various Pipelines of Water/Oil & Gas/Chemical Fertilizers Industries could also be refurbished by **F4**. Spares for Tapping Machines such as Hot Tap/Line Stop Cutters, Pilot Drills could also be provided.

Refurbish Able Products & Equipments Include

- Hot Tapping Machines
- Hydraulic Power Units
- Cutters / Pilot Drills
- Sandwich Valves
- Line Stop Cylinders
- Leak Repair Clamps



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